

FROM McANDREWS, HELD, & MALLOY

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## **APPENDIX A**

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A

Attorney Docket No. 6599X

CONTINUATION-IN-PART DECLARATION  
AND POWER OF ATTORNEY

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name;

That I verily believe that I am the original and joint first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"FAST BATTERY CHARGING SYSTEM AND METHOD"

described and claimed in the specification attached herewith or as filed on December 5, 1989 as U.S. Serial No. 07/446,231.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

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**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER  
35 U.S.C. 120**

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in those prior applications in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a), which occurred between the filing date of the prior applications and the filing date of this application:

**PRIOR U.S. APPLICATIONS FOR  
BENEFIT UNDER 35 U.S.C. 120:**

<u>U.S. APPLICATIONS</u>	<u>U.S. FILING DATE</u>	
(1) Ser. 385,380	June 7, 1982	(Now U.S. Patent No. 4,455,523)
(2) Ser. 612,588	May 21, 1984	(Now U.S. Patent No. 4,553,081)
(3) Ser. 797,235	November 12, 1985	(Now U.S. Patent No. 4,716,354)
(4) Ser. 876,194	June 19, 1986	(Now U.S. Patent No. 4,709,202)
(5) Ser. 944,503	December 18, 1986	(Now U.S. Patent No. 4,737,702)
(6) Ser. 168,352	March 15, 1988	(Now U.S. Patent No. 4,855,523)
(7) Ser. 07/266,537	November 2, 1988	(Pending)
(8) Ser. 07 /422,226 (Attorney Docket No. 35717A)	October 16, 1989	(Pending)

I hereby appoint as my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Sidney Neuman (Reg. No. 13907), Fred T. Williams (Reg. No. 14666), Theodore W. Anderson (Reg. No. 17035), Arthur A. Olson, Jr. (Reg. No. 17628), James R. Dowdall (Reg. No. 19749), Donald A. Peterson (Reg. No. 18647), William J. Birmingham (Reg. No. 17877), Joseph P. Calabrese (Reg. No. 17753), Gregory B. Beggs (Reg. No. 19286), Noel I. Smith (Reg. No. 18698), John J. Cavanaugh (Reg. No. 18372), Harry J. Roper (Reg. No. 22444), Michael O. Warnecke (Reg. No. 24345), James T. Williams (Reg. No. 25097), William M. Wesley (Reg. No. 26521), J. Bradford Leaheey (Reg. No. 27107), George S. Bosy (Reg. No. 29364), Herbert D. Hart, III (Reg. No. 30063), Nicholas A. Poulos (Reg. No. 30209), William H. Frankel (Reg. No. 30337), Donald W. Rupert (Reg. No. 29974), James P. Naughton (Reg. No. 30665), Lawrence E. Apolzon (Reg. No. 30992), Todd B. Blakely (Reg. No. 31328), William P. Oberhart (Reg. No. 31861), Robert W. Fieseler (Reg. No. 31826), Hugh A. Abrams (Reg. No. 31937), Raymond N. Nimrod (Reg. No. 31987), Richard A. Cederroth (Reg. No. 31336), Steven Trybus (Reg. No. 32760), Stephen G. Mican (Reg. No. 31983), Philip T. Petti (Reg. No. 31651), Van Metre Lund (Reg. No. 16968), all of Neuman, Williams, Anderson & Olson, 77 West Washington Street, Chicago, Illinois 60602, and R. Lewis Gable (Reg. No. 22479), of 2001 Jefferson Davis Highway, Arlington, Virginia 22202, and John H. Sherman (Reg. No. 16909).

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date

December 7, 1989Steven E. Koenck  
Steven E. Koenck

Full Name of First Joint Inventor: STEVEN E. KOENCK

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Attorney Docket No. 6599X

CERTIFICATE OF MAILING  
NO. NB 334 833 752

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
APPLICATION FOR PATENT

TITLE: "FAST BATTERY CHARGING  
SYSTEM AND METHOD"S P E C I F I C A T I O NCROSS-REFERENCE TO RELATED APPLICATIONS

Reference is made pursuant to 35 USC 120 to pending application U.S. Serial No. 07/266,537 filed November 2, 1988, and also to pending applications U.S. Serial No. \_\_\_\_\_ filed October 16, 1989 (Express Mail No. B818 395 55, Attorney Docket No. 35717A), and Serial No. 07/168,352 filed March 15, 1988 (now U.S. Patent 4,885,523 to issue December 5, 1989). Said pending applications refer under 35 USC 120 to earlier application 06/944,503 filed December 18, 1986 (now U.S. Patent 4,737,702 issued April 12, 1988). Said earlier application Serial No. 06/944,503 in turn refers under 35 USC 120 to earlier applications U.S. Serial No. 876,194 filed June 19, 1986 (now U.S. Patent 4,709,202 issued November 24, 1987), and U.S. Serial No. 797,235 filed November 12, 1985 (now U.S. Patent 4,716,354 issued December 29, 1987). Said applications Serial No. 797,235 and Serial No. 876,194 refer, pursuant to 35 USC 120 to earlier application Serial No. 612,588 filed May 21,

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1984 (now U.S. Patent 4,553,081 issued November 12, 1985), which is a continuation-in-part of earlier application Serial No. 385,830 filed June 7, 1982 (now U.S. Patent 4,455,523 issued June 19, 1984), and all of these earlier applications are also referred to herein in accordance with the provisions of 35 USC 120.

#### INCORPORATION BY REFERENCE

The disclosures and drawings of the above-mentioned U.S. Patents 4,455,523, 4,553,081, 4,737,702, and 4,885,523, and of the pending application ~~is~~ U.S. Ser. 07/266,537 are hereby incorporated herein by reference in their entirety.

#### BACKGROUND OF THE INVENTION

NiCad (nickel-cadmium) battery technology has been employed successfully in portable hand-held applications for many years. Photographic equipment, power tools, data terminals, personal radio transceivers and pagers commonly utilize NiCad batteries as a power source. The charging systems that have been provided with these products have ranged from a simple transformer/rectifier type to rather complex systems to monitor and control the charging function. An increasing need is the ability to charge NiCad batteries quickly. To reliably and efficiently charge NiCad batteries at high rates requires careful control of the charging operation to avoid damage to the cells, particularly under extreme ambient temperature conditions.

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